## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. - 26. (Canceled)

27. (Currently Amended) A Management Entity having a Provisioning Node side intended for provisioning a service towards a Network Element by sending provisioning orders, the Management Entity supporting a Subscription Management Generic Interface (SuM-GI) that includes a SuM-GI Data Model, the Management Entity comprising:

at least one Protocol Adapter for communicating with a specific protocol technology used at the Network element; and

a SuM-GI Manager for sending provisioning orders to manage subscriptions to services in the Network Element with a number of SuM-GI Operations operating on Objects Classes included in the SuM-GI Data Model, and independently from an internal data model used by the Network Element,

a mapping module in the Network Element for mapping a provisioning order received from the SuM-GI Manager into a number of internal operations operating on an internal data model supported by the Network Element, wherein the SuM-GI Data Model comprises any Object Class, or combinations thereof, selected from a group of Object Classes that includes:

SubscriptionIRP object class, intended for indicating to a SuM-GI Manager the SuM-GI version supported by each particular SuM-GI Agent in a Managed Entity, and thus arranged for comprising a list of the SuM-GI versions supported by known SuM-GI Agents;

SubscriptionFunction object class, intended for sub-classing Subscription, Subscriber, User, and UserServicePreferences related object classes and arranged for providing attributes that are common to underlying Managed Object Classes; and

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ServiceProviderFunction object class, intended for sub-classing

ProvidedService related object classes and arranged for providing attributes that are

common to underlying Managed Object Classes.

28. (Previously Presented) The Management Entity of claim 27, wherein

the SuM-GI Data Model further comprises any Managed Object Class, or combinations

thereof, selected from a group of Object Classes that includes:

Subscription object class, intended for modeling the agreement or contract

established between a subscriber and a service provider and arranged for containing all

the information related with the subscription;

Subscriber object class, intended for identifying a subscriber holding a subscription

with a service provider for a given service and arranged for registering a number of

users allowed to use said given service;

ProvidedService object class, intended for modeling a service provider inventory of

offered services and arranged for maintaining applicable capabilities of said offered

services:

User object class, intended for identifying a user associated to a given subscriber

and arranged for customizing particular user preferences for a given service; and

UserServicePreferences object class, intended for allowing a number of users

associated with a subscriber to have particular service preferences and arranged for

containing different service capabilities enabled for each user.

29. (Previously Presented) A Network Element where a service is

provisioned to subscribers of a communication network, the Network Element suitable

for being used as a Managed Entity and supporting a Subscription Management

Generic Interface (SuM-GI) that includes a SuM-GI Data Model, the Network Element

comprising:

at least one Protocol Adapter for communicating with a particular protocol

technology used by a Management Entity to send provisioning orders:

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a SuM-GI Agent for receiving provisioning orders with a number of SuM-GI

Operations operating on Objects Classes included in the SuM-GI Data Model; and

a Mapping Module for mapping received instances of the SuM-GI Data Model into

an internal data model;

wherein the SuM-GI Data Model comprises any Object Class, or combinations

thereof, selected from a group of Object Classes that includes:

SubscriptionIRP object class, intended for indicating to a SuM-GI Manager

the SuM-GI version supported by each particular SuM-GI Agent in a Managed Entity,

and thus arranged for comprising a list of the SuM-GI versions supported by known

SuM-GI Agents;

SubscriptionFunction object class, intended for sub-classing Subscription,

Subscriber, User, and UserServicePreferences related object classes and arranged for

providing attributes that are common to underlying Managed Object Classes; and

ServiceProviderFunction object class, intended for sub-classing

ProvidedService related object classes and arranged for providing attributes that are

common to underlying Managed Object Classes.

30. (Previously Presented) The Network Element of claim 29 wherein the

SuM-GI Data Model further comprises any Managed Object Class, or combinations

thereof, selected from a group of Object Classes that includes:

Subscription object class, intended for modeling the agreement or contract

established between a subscriber and a service provider and arranged for containing all

the information related with the subscription;

Subscriber object class, intended for identifying a subscriber holding a subscription

with a service provider for a given service and arranged for registering a number of

users allowed to use said given service;

ProvidedService object class, intended for modeling a service provider inventory of

offered services and arranged for maintaining applicable capabilities of said offered

services:

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User object class, intended for identifying a user associated to a given subscriber

and arranged for customizing particular user preferences for a given service; and

UserServicePreferences object class, intended for allowing a number of users

associated with a subscriber to have particular service preferences and arranged for

containing different service capabilities enabled for each user.

31. (Previously Presented) A method for provisioning services to

subscribers of a communication network, the method applying between a Management

Entity that has a Provisioning Node side intended for provisioning a service, and a

number of Managed Entities each Managed Entity having a Provisioned Node side

intended for receiving provisioning orders from the Management Entity, the method

comprising the steps of:

assigning a specific protocol technology for communication between a Subscription

Management Generic Interface (SuM-GI) Manager at a Provisioning Node side and

each SuM-GI Agent at respective Provisioned Node sides;

sending provisioning orders from a SuM-GI Manager toward at least one SuM-GI

Agent with a number of SuM-GI Operations intended for operating on Object Classes

included in a SuM-GI Data Model:

receiving the provisioning orders at a SuM-GI Agent in the Provisioned Node side of

at least one Managed entity with a number of SuM-GI Operations operating on Object

Classes included in the SuM-GI Data Model; and

mapping in this Provisioned Node side the provisioning order received from the

SuM-GI Manager with the SuM-GI Operations operating on Object Classes of the SuM-

GI Data Model into a number of internal operations operating on an internal data model

supported by the Managed Entity;

wherein the SuM-GI Data Model comprises any Object Class, or combinations

thereof, selected from a group of Object Classes that includes:

SubscriptionIRP object class, intended for indicating to a SuM-GI Manager

the SuM-GI version supported by each particular SuM-GI Agent in a Managed Entity,

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and thus arranged for comprising a list of the SuM-GI versions supported by known SuM-GI Agents;

SubscriptionFunction object class, intended for sub-classing Subscription, Subscriber, User, and UserServicePreferences related object classes and arranged for providing attributes that are common to underlying Managed Object Classes; and

ServiceProviderFunction object class, intended for sub-classing ProvidedService related object classes and arranged for providing attributes that are common to underlying Managed Object Classes.

32. (Previously Presented) The method of claim 31, wherein upon receipt of a provisioning order from a Subscription Management Generic Interface (SuM-GI) Manager in a SuM-GI Agent at a Sub-Network Manager, the method further comprising the steps of:

transferring the provisioning order received from a first SuM-GI Manager at a Provisioning Node side of a Management Entity or higher hierarchical Managed Entity toward a second SuM-GI Manager at a Provisioning Node side of the current node;

assigning a specific protocol technology for communication between the second SuM-GI Manager at the Provisioning Node side of the current node and each SuM-GI Agent at respective Provisioned Node sides of lower hierarchical Managed Entities; and sending provisioning orders from the second SuM-GI Manager toward at least one SuM-GI Agent at a Provisioned Node side of a lower hierarchical Managed Entity with a number of SuM-GI Operations intended for operating on Object Classes included in a SuM-GI Data Model.

## 33. - 34. (Canceled)

35. (Previously Presented) The method of claim 31, wherein the Subscription Management Generic Interface (SuM-GI) includes a SuM-GI Data Model further comprising any Managed Object Class, or combinations thereof, selected from a group of Object Classes that includes:

Subscription object class, intended for modeling the agreement or contract established between a subscriber and a service provider and arranged for containing all the information related with the subscription;

Subscriber object class, intended for identifying a subscriber holding a subscription with a service provider for a given service and arranged for registering a number of users allowed to use said given service;

ProvidedService object class, intended for modeling a service provider inventory of offered services and arranged for maintaining applicable capabilities of said offered services;

User object class, intended for identifying a user associated to a given subscriber and arranged for customizing particular user preferences for a given service; and

UserServicePreferences object class, intended for allowing a number of users associated with a subscriber to have particular service preferences and arranged for containing different service capabilities enabled for each user.

36. (Previously Presented) The method of claim 31, wherein the Subscription Management Generic Interface (SuM-GI) includes a SuM-GI Operation set intended to act on a SuM-GI Data Model and comprising any Operations, or combinations thereof, selected from groups of operations that include:

creating, modifying, removing and getting Subscriber;
creating, modifying, removing and getting User;
creating, modifying, removing and getting Provided Service.
creating, modifying, removing and getting Subscription;
adding, removing and getting User to or from a given Subscription; and
setting and getting User Service Preferences for a user under a given

(Canceled)

Subscription:

37.

- 38. (Previously Presented) The method of claim 31, wherein the Subscription Management Generic Interface (SuM-GI) is arranged for holding specific attributes or characteristics of those objects included in the SuM-GI Object Model in a generic information placeholder associated to each particular object.
- 39. (Previously Presented) The method of claim 38, wherein the Subscription Management Generic Interface (SuM-GI) is arranged for allowing each individual SuM-GI Agent to determine whether or not each particular attribute in a list of attributes is applicable in the node where the SuM-GI Agent resides, the applicability depending on a specific internal data model in said node.
- 40. (Previously Presented) A Subscription Management Generic Interface (SuM-GI), comprising

a SuM-GI Data Model and SuM-GI Operations, intended for provisioning services to subscribers of a communication network wherein said Subscription Management Generic Interface (SuM-GI) operates in accordance with an Integration Reference Point (IRP) specification within an IRP Generic Network Resource Model, wherein the SuM-GI Data Model comprises any Object Class, or combinations thereof, selected from a group of Object Classes that includes:

the SuM-GI Data Model further comprising any Managed Object Class, or combinations thereof, selected from a group of Object Classes that includes:

SubscriptionIRP object class, intended for indicating to a SuM-GI Manager the SuM-GI version supported by each particular SuM-GI Agent in a Managed Entity, and thus arranged for comprising a list of the SuM-GI versions supported by known SuM-GI Agents;

SubscriptionFunction object class, intended for sub-classing Subscription, Subscriber, User, and UserServicePreferences related object classes and arranged for providing attributes that are common to underlying Managed Object Classes; and

ServiceProviderFunction object class, intended for sub-classing ProvidedService related object classes and arranged for providing attributes that are common to underlying Managed Object Classes.

41. (Previously Presented) The Management Entity of claim 27, wherein the Subscription Management Generic Interface (SuM-GI) includes a SuM-GI Operation set intended to act on the SuM-GI Data Model and comprising any Operations, or combinations thereof, selected from groups of operations that include:

creating, modifying, removing and getting Subscriber:

creating, modifying, removing and getting User;

creating, modifying, removing and getting Provided Service.

creating, modifying, removing and getting Subscription;

adding, removing and getting User to or from a given Subscription; and

setting and getting User Service Preferences for a user under a given Subscription.

42. (Previously Presented) The Management Entity of claim 27, wherein both SubscriptionFunction and ServiceProviderFunction object classes inherit from a Managed Object Class (ManagedElement) representing telecommunication equipment or network element related functions.

43. (Previously Presented) The Network Element of claim 29, wherein the Subscription Management Generic Interface (SuM-GI) includes a SuM-GI Operation set intended to act on the SuM-GI Data Model and comprising any Operations. or combinations thereof, selected from groups of operations that include:

creating, modifying, removing and getting Subscriber;

creating, modifying, removing and getting User;

creating, modifying, removing and getting Provided Service.

creating, modifying, removing and getting Subscription;

adding, removing and getting User to or from a given Subscription; and

setting and getting User Service Preferences for a user under a given

Subscription.

44. (Previously Presented) The Network Element of claim 29, wherein both

SubscriptionFunction and ServiceProviderFunction object classes inherit from a

Managed Object Class (ManagedElement) representing telecommunication equipment

or network element related functions.

45. (Previously Presented) The method of claim 31, wherein at least one

Managed Entity is a Network Element in which a given service is provisioned, and

wherein a number of Managed Entities may optionally form a hierarchical Sub-Network

Manager structure interposed between a centralized Management Entity acting as a

Network Manager, and a number of Network Elements, each Sub-Network Manager

comprising:

a SuM-GI Manager, a SuM-GI Agent and a number of Protocol Adapters, thus

presenting a Provisioned Node side towards a Provisioning Node side at a Network

Manager or at another Sub-Network Manager, and a Provisioning Node Side towards a

Provisioned Node side at a Network Element or at another Sub-Network Manager.

46. (Previously Presented) The Subscription Management Generic Interface

(SuM-GI) of claim 40, wherein both SubscriptionFunction and ServiceProviderFunction

object classes inherit from a Managed Object Class "ManagedElement" representing

telecommunication equipment or network element related functions.

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